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The polarized architecture of hepatocytes

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2014

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Slim, C. (2014). *The polarized architecture of hepatocytes: Regulation by intrinsic and extrinsic factors*. [Thesis fully internal (DIV), University of Groningen]. [S.n.].

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STELLINGEN

behorende bij het proefschrift

THE POLARIZED ARCHITECTURE OF HEPATOCYTES

REGULATION BY INTRINSIC AND EXTRINSIC FACTORS

1. It is not the orientation of the mitotic spindle but the point of abscission at cytokinesis that ultimately determines how plasma membrane domains are separated in epithelial cells. (*Oliferenko et al. Genes Dev. 2009;23(6):660-74 and this thesis*)
2. The microarchitecture of the bile canalicular network precludes any assumptions about its anatomical structure on the basis of tissue coupes of only a few micrometers thick. (*Stamatoglou et al., J Cell Biol. 1992;116(6):1507-15 and this thesis*)
3. The apicolateral plasma membrane domain is specific for hepatocyte polarity and lost upon symmetric segregation of apical plasma membrane domains and subsequent development of simple epithelial polarity. (*this thesis*)
4. Hepatocytes do not have a single apical-basal polarity axis, but rather multiple apical-apical or basal-basal axes. (*Decaens C et al. Biol Cell. 2008;100(7):387-98 and this thesis*)
5. The imposing of a measuring system on scientific research inherently changes the way science is performed and experienced. (*Hirsch JE. Proc Natl Acad Sci U S A. 2005;102(46):16569-72*)
6. To spent considerable amounts of time doing something completely different or, ideally, nothing at all, is absolutely critical to be a successful scientist. (*Yewdell JW. Nat Rev Mol Cell Biol. 2008;9(5):413-6*)
7. Analogous to the art of making a good cup of coffee, there is no substitute for freshly made paraformaldehyde. (*North AJ. J Cell Biol. 2006;172(1):9-18*)
8. In biological systems, everything is connected to everything, although not always by direct interaction.

Genes are like the keys on a piano: although they are essential, it is the context that makes the music. (*Nelson CM, Bissell MJ. Annu Rev Cell Dev Biol. 2006;22:287-309*)

Science is an extremely challenging undertaking because it is very difficult to find a black cat in a dark room, especially when there is no cat. (*ancient proverb*)

Man suffers only because he takes seriously what the gods made for fun. (*Alan Watts*)